

How to change front coil springs on Audi A4 B6 – replacement guide

 VIDEO TUTORIAL

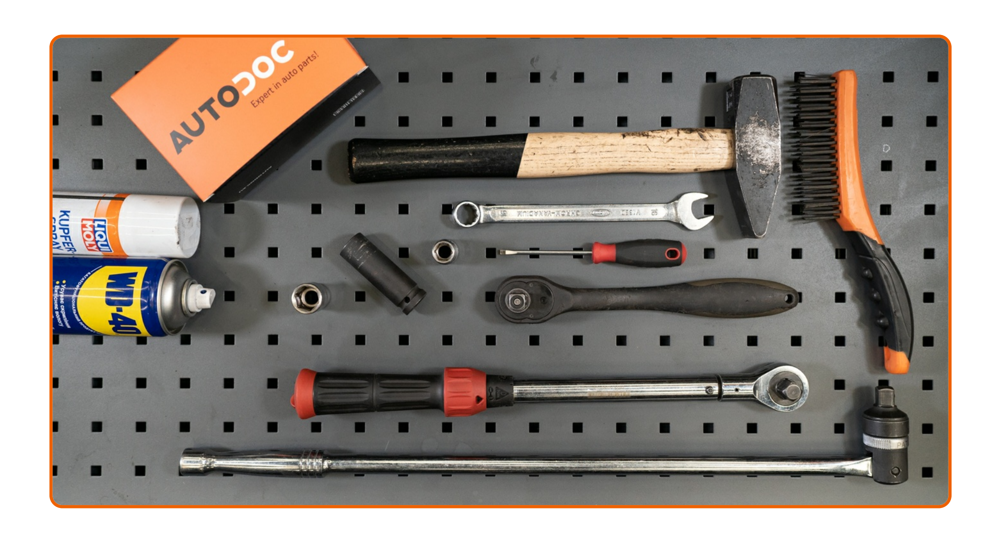
Important!

This replacement procedure can be used for:
AUDI A4 (8E2, B6) 1.8 T, AUDI A4 (8E2, B6) 1.8 T quattro, AUDI A4 (8EC, B7) 1.8 T, AUDI A4 (8EC, B7) 1.8 T quattro, AUDI A4 Avant (8E5, B6) 1.8 T, AUDI A4 Avant (8E5, B6) 1.8 T quattro, AUDI A4 Avant (8ED, B7) 1.8 T, AUDI A4 Avant (8ED, B7) 1.8 T quattro, AUDI A4 Convertible (8H7, B6, 8HE, B7) 1.8 T

The steps may slightly vary depending on the car design.



REPLACEMENT: COIL SPRINGS – AUDI A4 B6. TOOLS YOU MIGHT NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Combination spanner #16
- Combination spanner #18
- Drive socket # 16
- Drive socket # 18
- Wheel impact socket #17
- Ratchet wrench
- Torque wrench
- Pin punch
- Hammer
- Flat chisel
- Flat Screwdriver
- Hydraulic strut spring compressor
- Hydraulic transmission jack
- Fender cover
- Wheel chock

Replacement: coil springs – Audi A4 B6. Professionals recommend:

- Both coil springs of the front suspension should be replaced simultaneously.
- The replacement procedure is identical for the left and right coil springs of the front suspension.
- Please note: all work on the car – Audi A4 B6 – should be done with the engine switched off.

CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

1

Secure the wheels with chocks.

2



Loosen the wheel mounting bolts. Use wheel impact socket #17.

3

Raise the front of the car and secure on supports.





Unscrew the wheel bolts.

AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while unscrewing the fastening bolts. Audi A4 B6

5

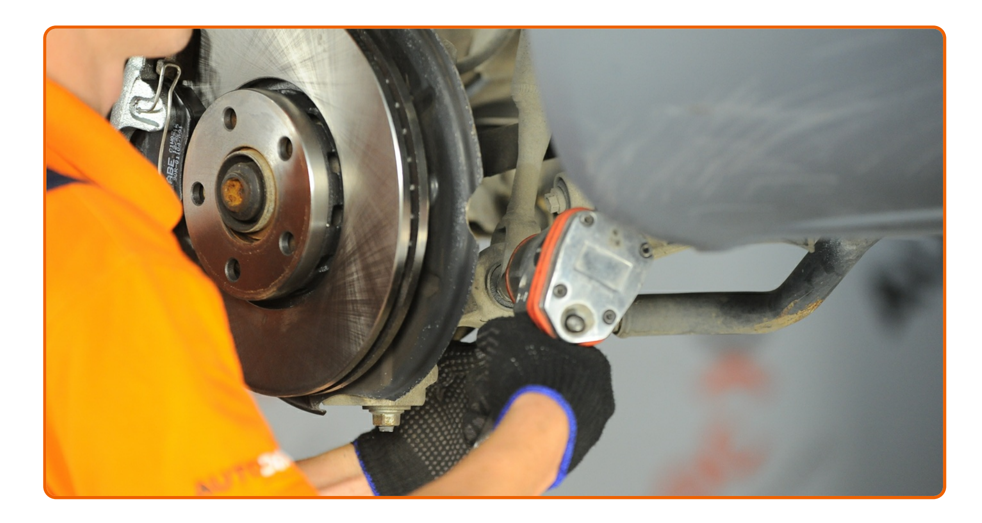


Remove the wheel.

6

Clean the fasteners connecting the shock strut to the steering knuckle. Use a wire brush. Use WD-40 spray.

7



Unscrew the lower fastener connecting the shock strut to the steering knuckle. Use a combination spanner #18. Use a drive socket #18. Use a ratchet wrench.

8



Clean all joints of the arm. Use a wire brush. Use WD-40 spray.

9

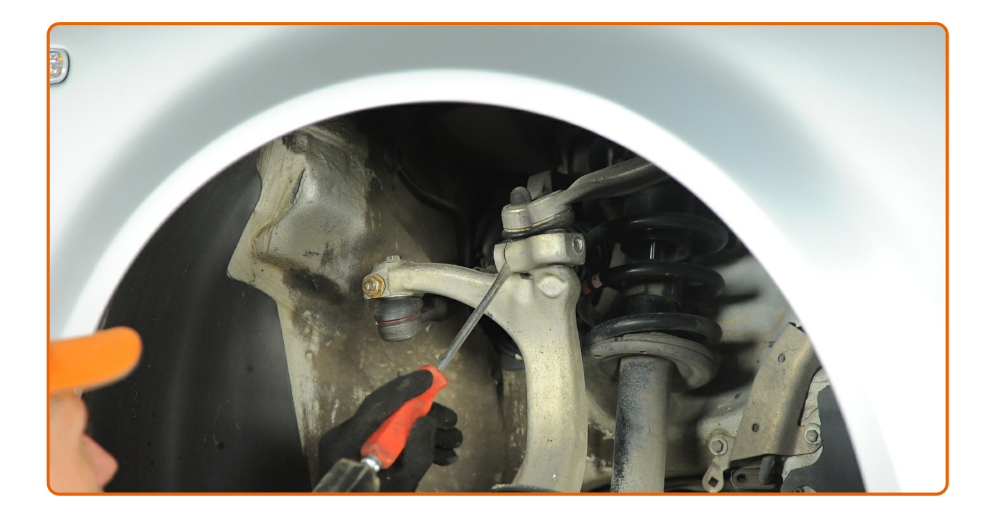


Unscrew the upper arm fastenings. Use a combination spanner #16. Use a drive socket #16. Use a ratchet wrench.

10

Remove the fastening bolt.

11



Detach the upper control arm from the steering knuckle. Use a pin punch. Use a flat metal-working chisel. Use a hammer.

12

Detach the bottom part of the shock strut.

13



Lower the car.

14



Open the bonnet.

15

Use a fender protection cover to prevent damaging paintwork and plastic parts of the car.

16



Remove the cowl grille seal.

17



Raise up and remove the cowl grille.

18

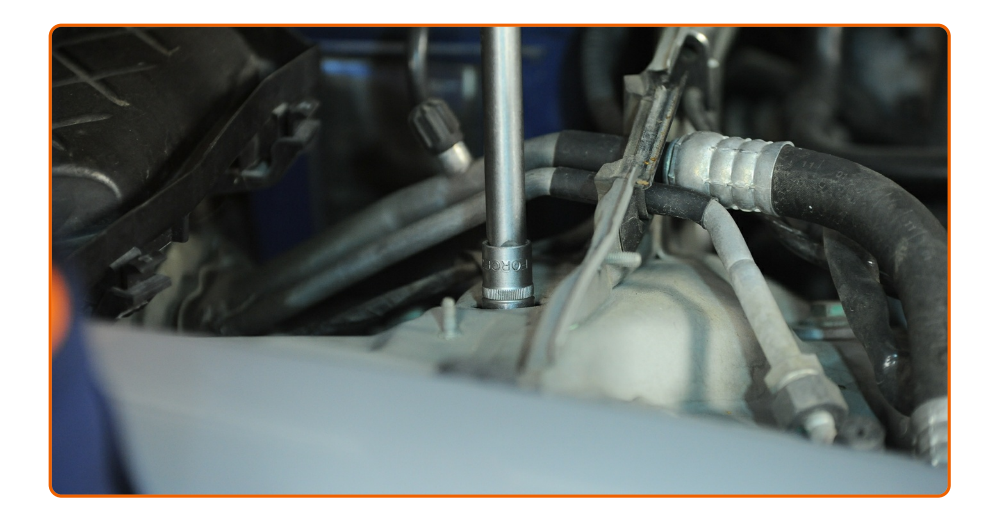


Remove the shock strut mount cap. Use a flat screwdriver.

19

Clean the fasteners of the shock strut upper mount. Use a wire brush. Use WD-40 spray.

20



Unscrew the top fastening of the shock strut mount. Use a drive socket #16. Use a ratchet wrench.

AUTODOC recommends:

- Audi A4 B6 – To avoid injury, hold the suspension strut while unscrewing the fastening bolts.

21



Remove the suspension strut.

22



Set the shock absorber strut on the spring compressor tool.

Replacement: coil springs – Audi A4 B6. Tip:

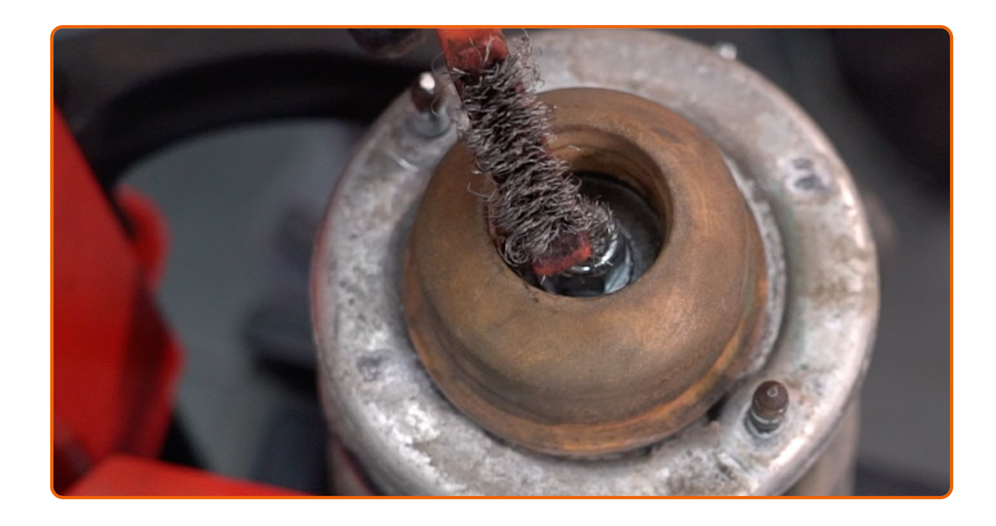
- Note that when using a spring compressor, spring coils need to be securely gripped, compressing the spring on the opposite sides.
- Ensure the correct position of the spring in the retainer.
- Make sure that the spring coils tightly entered the lock handles.

23



Compress the spring.

24



Treat the shock strut rod. Use a wire brush. Use WD-40 spray.

25



Remove the strut piston rod nut. Use a drive socket #18. Use a ratchet wrench.

26



Remove the top mount, the support bearing and the upper spring cup.

27

Release the coil spring.

28

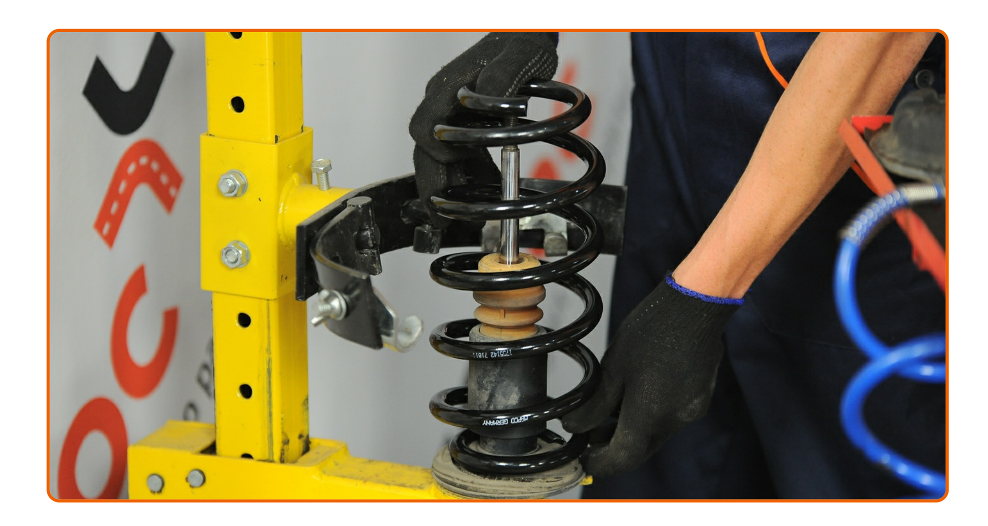


Remove the spring.

AUTODOC recommends:

- Replacement: coil springs – Audi A4 B6. Carefully inspect the mount, the boot, and the bump stop of the shock absorber. Replace if necessary.

29



Install the spring.

30

Compress the spring.

31

Install the upper strut mount and the strut mount bearing.

32



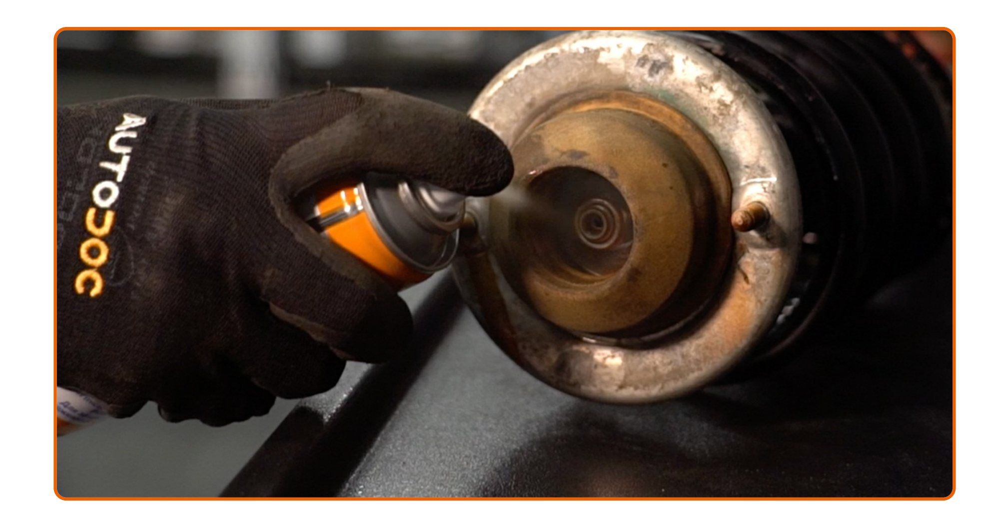
Tighten the shock strut piston rod nut. Use a drive socket #18. Use a torque wrench. Tighten it to 60 Nm torque.



Replacement: coil springs – Audi A4 B6. Tip from AUTODOC:

- Check to make sure the spring is positioned correctly. Avoid its misalignment.

33



Treat the shock strut rod. Use copper grease.

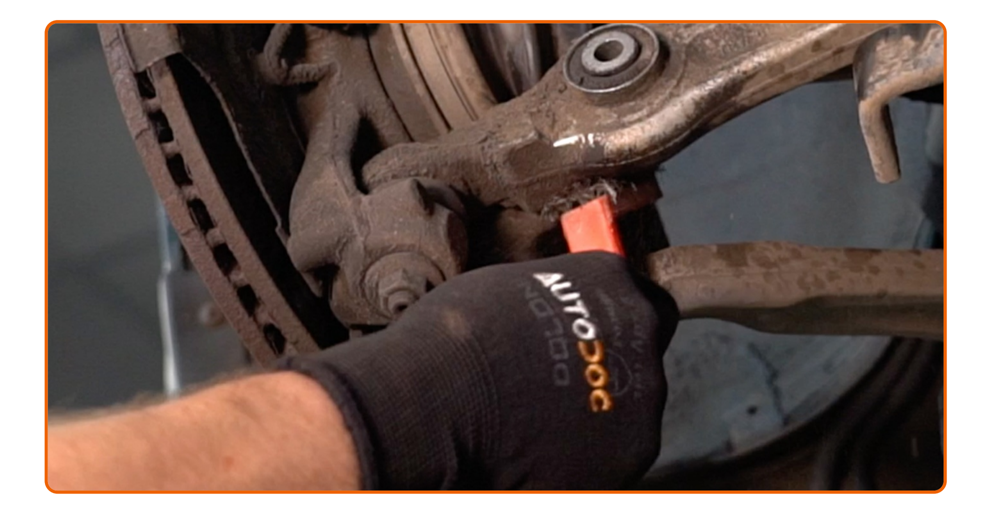
34

Decompress the spring.

35

Remove the assembled shock strut.

36



Clean the mounting seats of the shock strut. Use a wire brush. Use WD-40 spray.

37



Install the shock strut into the wheel arch.

38



Screw the top fastening of the shock strut mount.

AUTODOC recommends:

- Audi A4 B6 – To avoid injury, hold the suspension strut while screwing in the fastening bolts.

39



Tighten the upper fastener of the shock absorber strut mount. Use a drive socket #16. Use a torque wrench. Tighten it to 60 Nm torque.

40

Treat the fasteners of the shock strut mount. Use copper grease.

41



Install the shock strut mount cap.

42



Install and secure the cowl grille.

43



Install the cowl grille seal.

44

Remove the fender protection cover.

45



Close the hood.



46

Raise the front of the car and secure on supports.

47

Attach the bottom part of the shock strut. Use a hammer.

48



Attach the upper control arm to the steering knuckle. Use a hammer.

49

Install the fastening bolt.

50



Tighten the upper arm fastenings. Use a combination spanner #16. Use a drive socket #16. Use a torque wrench. Tighten it to 70 Nm torque.

51



Prop up the steering knuckle. Use a hydraulic transmission jack.

52



Tighten the lower fasteners connecting the shock strut to the steering knuckle. Use a combination spanner #18. Use a drive socket #18. Use a torque wrench. Tighten it to 90 Nm torque.

53



Remove the support from under the steering knuckle.

AUTODOC recommends:

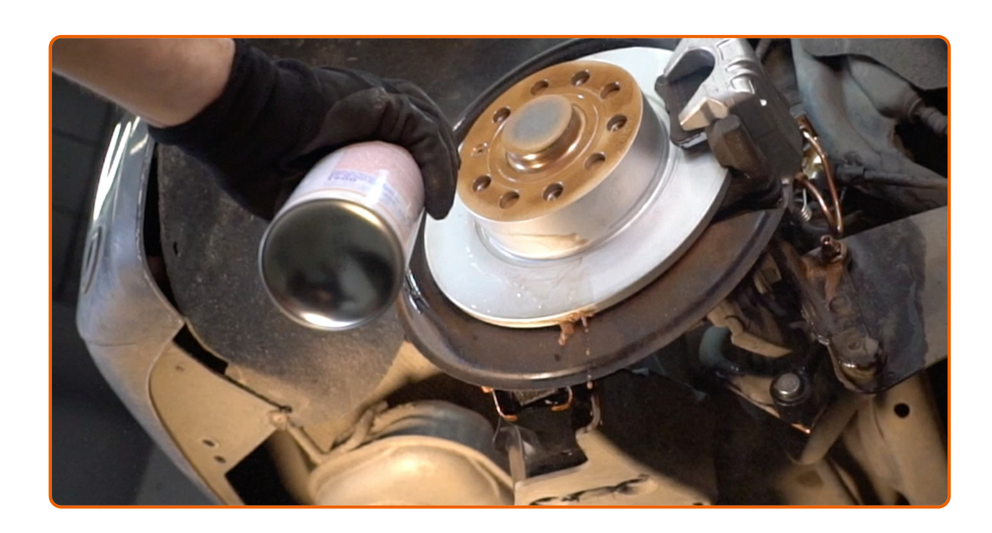
- Replacement: coil springs – Audi A4 B6. Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.

54



Treat the surface where the brake disc contacts the wheel rim. Use copper grease.

55



Clean the brake disk surface. Use a brake cleaner.

AUTODOC recommends:

- Replacement: coil springs – Audi A4 B6. After applying the spray, wait a few minutes.

56



Install the wheel.

AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while screwing in the fastening bolts on the car. Audi A4 B6

57



Screw in the wheel bolts. Use wheel impact socket #17.



58



Lower the car and working in a cross order, tighten the wheel bolts. Use wheel impact socket #17. Use a torque wrench. Tighten it to 120 nm torque.

59



Remove the jacks and chocks.



DID YOU FIND THESE INSTRUCTIONS HELPFUL?

YES

NO

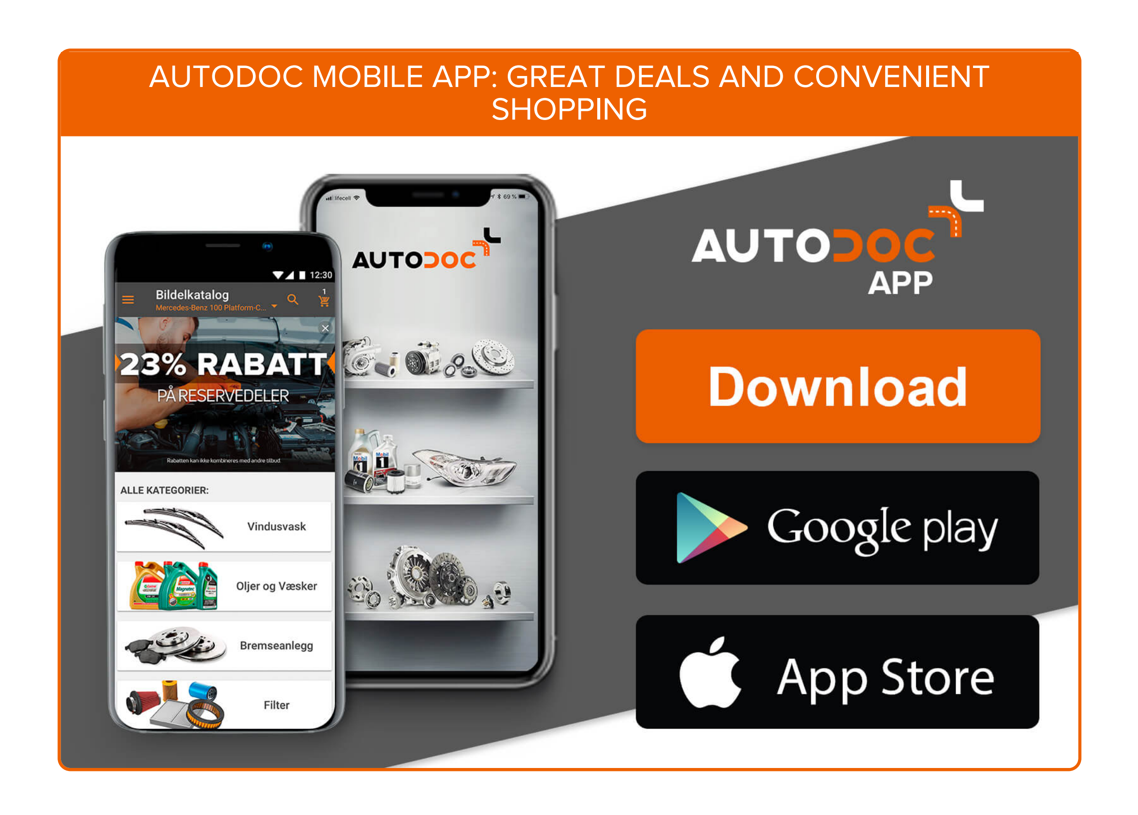


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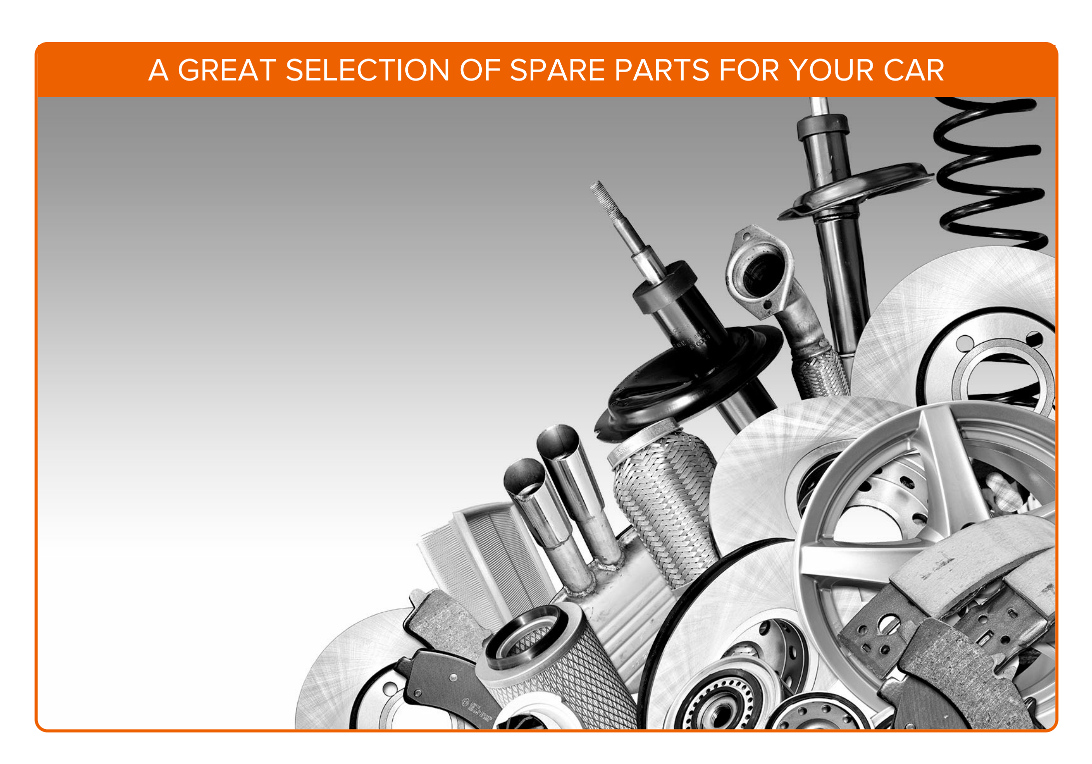


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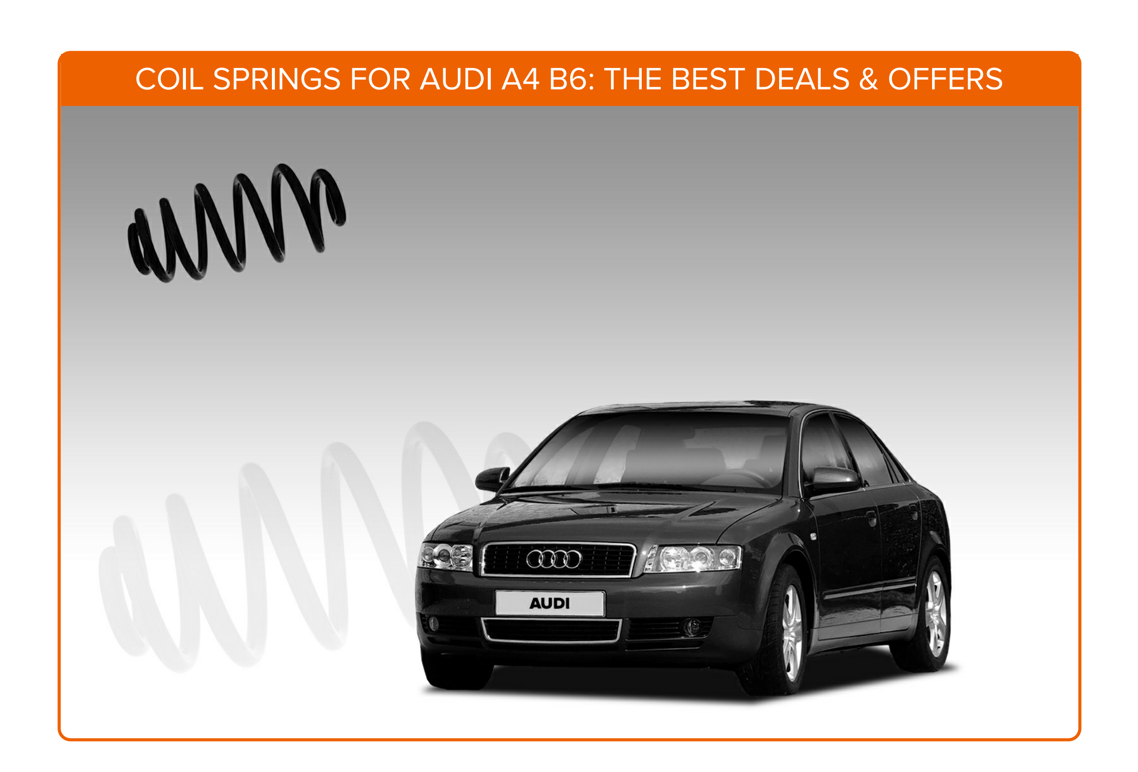
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